Sudheer Sugandham

FULL STACK DEVELOPER | ML ENTHUSIAST

SUMMARY

Passionate Full Stack Developer with a strong foundation in Computer Science and a keen interest in Artificial Intelligence.I thrive on creating innovative solutions that make a real difference. Currently pursuing B.Tech in Computer Science at GMR Institute of Technology, I combine technical expertise with a problem-solving mindset to deliver impactful projects. My journey is driven by curiosity, continuous learning, and a commitment to excellence in every challenge I undertake.

EXPERIENCE

Team Lead – HCL Technologies
Internship | 6 Months | 2024
- Led a team in developing a full stack bicycle monitoring system using PHP, MySQL, HTML, CSS, and JavaScript.

Machine Learning Intern – Syber Spring Informatics
Internship | 1 Month | 2025
- Built and evaluated multiple machine learning models using Python and Scikit-learn and built a Student Performance Prediction system.

PROJECTS

- **Smart Waste Route Optimizer:** Developed an AI-powered system to optimize waste collection routes, reducing fuel costs and emissions using Flask, ML, and IoT sensors datasets.
- **Quantum ML Stock Predictor:** Built a quantum machine learning model for FTSE-100 stock prediction, integrating real-time sentiment analysis and quantum circuits.
- **Urban Issue Reporter:** Built a Flask web application for community issue reporting with user authentication, image upload, and admin dashboard.
- **Community Sustainability Tracker:** Developed a Flask app to track and manage community sustainability initiatives like food wastage, methane emmision with role-based access and analytics.
- **Emergency Medical Information Platform(SIH 2024):** Designed a full stack web application for emergency medical services, featuring geolocation-based hospital search and blood bank tracking.
- **Anti Sleep Alarm for Drivers (IoT):** Developed an IoT-based drowsiness detection system using Arduino and Python, achieving 90%+ accuracy with real-time alerts.
- **eDNA Analysis for Species Identification(SIH 2025):** Developed a system using environmental DNA analysis to determine whether a species is new or old, incorporating ocean drift data and advanced bioinformatics for accurate biodiversity assessment.
- **Friendly Farmer (E-commerce):** Created an e-commerce platform connecting farmers directly with customers, featuring product management and analytics.
- **Safest Journey:** Developed a Flask safety app for passenger journey tracking with QR code scanning and automated emergency alerts.
- **Bicyclelo – Online Bicycle Management:** Built a comprehensive bicycle management system for on-campus deployment with QR code scanning and maintenance scheduling.
- **Face Recognition Attendance System:** Created an ML-based attendance system using computer vision for automated and secure tracking.
- **YOLOv8 Accident Detection:** Implemented a real-time accident detection system using YOLOv8 for instant alerts and location sharing.
- **Drowsiness Detection for Anti Sleep Alarm Software:** Developed a software solution for drowsiness detection for drivers and give alerts.

CONTACT

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GitHub: https://github.com/sudhher1s

SKILLS

Programming Languages:
Python, Java, JavaScript, C++, C, PHP, SQL
Web Development: Flask, Laravel, HTML5, CSS3, Bootstrap,PHP Responsive Design, RESTful APIs
Database & Backend: MySQL, SQLite, SQLAlchemy, Database Optimization, DBMS Design
Machine Learning & AI: Scikit-learn, Pandas, NumPy, Matplotlib, Data Analysis, Classification Algorithms
Tools & Platforms: Git, GitHub, VS Code, Streamlit, Jupyter Notebook,
Soft Skills: Leadership, Teamwork, Communication, Time Management, Problem Solving, Adaptability, Critical Thinking, Project Management

ACHIEVEMENTS

- Winner – Swarnandra Hackathon 2025
- First Prize – Startup Idea Competition
- Winner – JNSMEE Science Fair
- 5th Place – NSRIT Hackathon
- NPTEL Certification – IIT Madras
- Coursera Certification – Prompt Engg

EDUCATION

GMR Institute of Technology, Rajam – B.Tech in Computer Science and Engineering (2024–2027), CGPA: 9.2/10.0
Government Polytechnic Srikakulam – Diploma in Compute Engineering (2021–2024), GPA: 95.6%
Government High School, Palakonda – SSC (2020–2021), GPA: 10.0/10.0